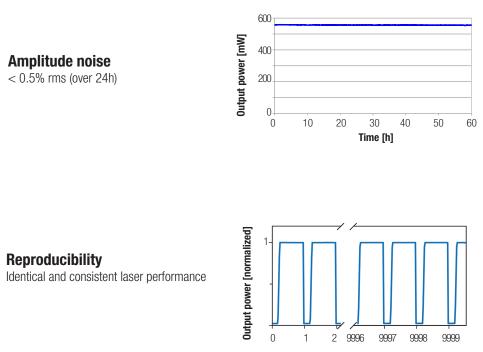
# **C-Fiber**

### Femtosecond Fiber Laser 1560 nm



Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9<sup>®</sup> design results in reproducible and long-term stable operation. It is based on the well-established Nonlinear Amplifying Loop Mirror (NALM) mode locking mechanism. Both oscillator and amplifier use polarization maintaining (PM) fiber components only, ensuring excellent stability and low-noise operation. The laser is maintenance free, user installed and ready to use at the press of a single button. Customize your laser with the available options to match the requirements of your application. Complete synchronization solution is available with laser and synchronization electronics. All components from one supplier with full automation guarantees hands off operation and more time for your experiments.

#### PERFORMANCE DATA



On/off turns

## **MenioSystems**

#### **KEY SPECIFICATIONS**

- Wavelength 1560 nm
- Output Power >500 mW
- Pulse Length <90 fs</p>
- Repetition Rate 50-250 MHz

#### APPLICATIONS

- Synchronization and Timing
- Ultrafast Spectroscopy
- Supercontinuum Generation
- Material Characterization
- Testing at Telecom Wavelengths

#### **FEATURES**

- High Stability
- Low Amplitude and Phase Noise
- All-PM Solution
- Single Mode-Lock State
- Menlo figure 9<sup>®</sup> Technology

#### OPTIONS

- SYNC100 Repetition Rate Synchronization Tunable cavity length by high-bandwidth piezo-controlled synchronization
- RRE-SYNCRO
   Repetition Rate Stabilization
   Feedback electronics to phase lock
   pulses to an external clock (see separate data sheet for more details)

#### **VARIO**

**User-Defined Repetition Rate** Factory-set value selectable in the 50-250 MHz range

#### MULTIBRANCH Additional Seed Ports Sooding of multiple amp

Seeding of multiple amplifiers with optional subsequent frequency conversion to cover multiple wavelengths

## **C-Fiber** Femtosecond Fiber Laser 1560 nm

SPECIFICATIONS	C-FIBER	C-FIBER HIGH POWER	
Center Wavelength	1560 nm ± 20 nm	1560 nm ± 20 nm	
Average Power	>100 mW	>500 mW	
Pulse Energy	>1 nJ	>5 nJ	
Pulse Width	<90 fs		
Repetition Rate	100 MHz (50-250 MHz with VARIO)*		
Repetition Rate Instability	<1 ppm over 20 hours at constant temperature		
Timing Jitter	<2 fs [rms, 10 kHz 1 MHz]		
Output Port	fiber-coupled (FC/APC)	free space	
Additional Fiber-Coupled Seed Port	1 (up to 4 with MULTIBRANCH)		
Polarization	linear, PM fiber	linear, s-polarized	
Beam Height	n.a.	102 mm	
*Please inquire for your specific combinations of average power, pulse duration and repetition rate.			

#### REQUIREMENTS

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Operating Voltage	1	100/115/230 VAC	
Frequency		50 to 60 Hz	
Power Consumption		120 VA	
Cooling Requirements	no wa	no water cooling is required	
Laser Head Stabilization	actively	actively temperature stabilized	
Operating Temperature		15 °C - 35 °C	
Laser Head Dimensions/Weight	413 x 90 x 178 mm <sup>3</sup> / 7 kg	413 x 120 x 178 mm <sup>3</sup> / 10 kg	
Control Unit Dimensions/Weight	448 x 132 x 437 mm <sup>3</sup> / 10 kg	448 x 132 x 437 mm <sup>3</sup> / 12 kg	
Warm-Up Time		<60 s	

## ORDERING INFORMATION Product Code C-Fiber C-Fiber C-Fiber

Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.



**MenioSystems** 

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Menio Systems GmbH T+49 89 189 166 0 sales@meniosystems.com Menio Systems, Inc. T+1 973 300 4490 ussales@meniosystems.com **Thorlabs, Inc.** T+1 973 579 7227 sales@thorlabs.com



www.menlosystems.com

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